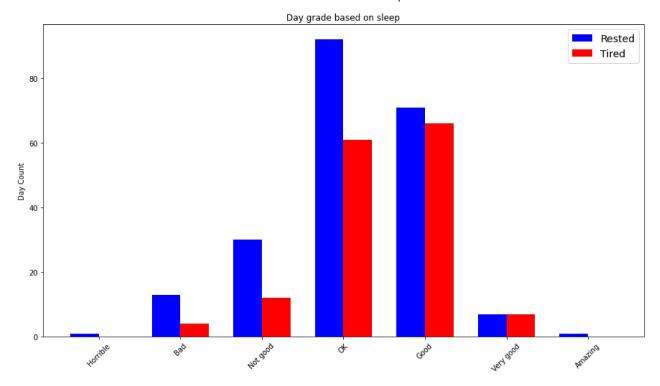
```
In [79]:
          import matplotlib.pyplot as plt
          import pandas as pd
          import numpy as np
In [81]:
          df = pd.read csv("2021 in data sleptenough.csv")
In [102...
          #prepping grades column for bar graph
          #grades = list(abs(df.loc[:, "Grade"]))
          #Selecting grades where I slept enough
          sleepgrades = list(abs(df.loc[(df["SleptEnough"]==1), "Grade"]))
          #Selecting grades where I did not sleep enough
          nosleepgrades = list(abs(df.loc[(df["SleptEnough"]==0), "Grade"]))
         <class 'int'>
In [151...
          #Creating bar graph
          labels = ['Horrible', 'Bad', 'Not good', 'OK', 'Good', 'Very good', 'Amazing']
          #Getting counts of grades where I slept enough
          sleepgrades count = []
          for i in range(7):
              sleepgrades count.append(sleepgrades.count(i +1))
          #Counts of grades where I didn't sleep enough
          nosleepgrades_count = []
          for i in range(7):
              nosleepgrades count.append(nosleepgrades.count(i+1))
          x = np.arange(len(labels)) +1
          width = 0.35
          fig, ax = plt.subplots(figsize=(15,8))
          rects1 = ax.bar(x - width/2, sleepgrades count, width, label='Rested', color='Blue')
          rects2 = ax.bar(x + width/2, nosleepgrades count, width, label='Tired', color='Red')
          ax.set ylabel('Day Count')
          ax.set title('Day grade based on sleep')
          ax.set xticks(x)
          ax.set xticklabels(labels)
          plt.xticks(rotation=45)
          ax.legend(fontsize = 14)
          plt.show()
```



In [153... #Saving plot
fig.savefig("sleepgrade_bar.jpeg", bbox_inches='tight',pad_inches=.5)